Date: Mon, 2 Aug 93 04:30:01 PDT
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V93 #227
To: packet-radio

Packet-Radio Digest   Mon, 2 Aug 93   Volume 93 : Issue 227

Today's Topics:
Baycom Modem
TAPR-II schematic?

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 29 Jul 1993 23:34:42 GMT
From: sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcso!hplvec!tcline@network.ucsd.edu
Subject: Baycom Modem
To: packet-radio@ucsd.edu

> In rec.radio.amateur.packet, drs@ccd.harris.com (Doug Snowden) writes:
>
> I am trying to build a Baycom Modem to get into packet with. The only part
> I need now is the Texas Instruments TCM3105 IC. Anyone out there know where
> I can purchase one or more of these things? Thanks...Doug...N4IJ
>
> drs@ccd.harris.com

PMP uses the same parts. I hope the following helps!

73

Ted Cline, N0RQV
ted_cline@hpisla.lvld.hp.com

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VOICE: (303) 679-2352
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> Date: Fri, 9 Jul 93 12:11:58 -0600
> Subject: Re: Where to find Poor Man Packet kits?
> Newsgroups: rec.radio.amateur.digital.misc
>
> / hplvec:rec.radio.amateur.digital.misc / jdwhite@iastate.edu (Jason White) /
3:01 am  Jul  8, 1993 /
>
> I recently asked one of the origional authors of PMP about kits.  Here's what
> he sent back to me:
>
> --------------------------
>                                                                 May, 1993
...
>
> Modem Parts Kits - No longer available!
>
> Due to drop in demand,  we can no longer afford to sell modem
> kits.  If you are still interested in building a PMP modem, we've
> compiled a list of sources for the parts:
>
>
>       TCM3105                  JDR Microdevices, (800) 538-5000
>                                $9.95/each, no minimum order
>
>
>                                Active Electronics, (800) 677-8899,
>                     international orders (514) 630-7410
>                                $6.47/each, $25.00 minimum order
>
>
>       4.4336 MHz crystal       Active Electronics, (800) 677-8899,
>                     international orders (514) 630-7410
>                                $0.88/each, $25.00 minimum order
>
>
>                                (possibly other suppliers, the frequency is
>                     the European colorburst)
>
>
...
>
>       Misc. Parts              Digi-Key (800) 344-4539
>                                JDR Microdevices, (800) 538-5000
>                                Radio-Shack
>
```

...

>
> Also, the latest version of PMP can be found via Internet anonymous FTP on helios.tn.cornell.edu (128.84.241.2) in the directory /pub. If you don't have Internet mail but not FTP, try the FTP mail server: send a mail message with the subject "help" and a single message line "help" to ftpmail@decwrl.dec.com. PMP can also be downloaded from CompuServe, GEnie, or the 73 Magazine BBS at (603) 525-4438.
>
> Sorry, we can't register users for automatic updates. (the current version is 1.1)
>
> We hope you enjoy PMP!
>
> Andy, N8KEI
> Kevin, WB2EMS

Date: 2 Aug 1993 04:45:27 UTC
From: quack!mrapple@uunet.uu.net
Subject: TAPR-II schematic?
To: packet-radio@ucsd.edu

I have found the TAPR-II ROM images on various ftp sites, but is there anywhere either a schematic or set of circuit specs for the hardware?

Here's what I know:

2 MHz Z-80
32K ROM in the bottom half of the memory map
32K RAM in the top half (battery backed)
1 Z-80 SSC, port A the asynchronous host port, port B to the modem. Port B DTR is the transmitter key, port B DCD is the modem carrier detect. Two of the other pins are used for CON and STA, but I don't know which off hand. Nor do I know if it matters where in particular the SSC goes (though I dimly remember that it doesn't, since it is aparently the only thing in I/O space). The transmit and receive clocks on the SSC go to a baud rate divider.

Is there anything more to it? Must anything funky be done to the circuitry or the ROM if the CPU turns out to be faster than 2 MHz? I seem to dimly remember something about the ROM figuring out on its own what the clock rate is (for the purposes of the real-time clock).

How far off am I?

```
--
Nick Sayer <mrapple@quack.kfu.com>   | "His laugh alone is enough to make
N6QQQ @ N0ARY.#NOCAL.CA.USA.NOAM     | you want to harm him or yourself."
+1 408 249 9630, log in as 'guest'   |       -- The New York Times
PGP 2.2 public key via finger        |     on Barney the Dinosaur
```

End of Packet-Radio Digest V93 #227
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